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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,178		10/10/2003	Gerardo M. Castillo	017170-0008-999	2631
20583	7590	07/19/2006		EXAMINER	
JONES DA			COVINGTON, RAYMOND K		
	222 EAST 41ST ST NEW YORK, NY 10017				PAPER NUMBER
				1625	
			DATE MAILED: 07/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/684,178	CASTILLO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Raymond Covington	1625					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
Responsive to communication(s) filed on 2\1\0\0 2a) This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro						
Disposition of Claims							
 4) Claim(s) 22-24,27-32,37,39,40 and 60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 22-24,27-32,37,39,40 and 60 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)							
Paper No(s)/Mail Date 6) Other:							

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 22-36, 38-49, 52, 53 and 57-61 are again rejected under 35 U.S.C. 102(b) as being anticipated by Castillo et al PCT 00/12102.

Castillo et al PCT 00/12102 is applied as in the previous office action.

Applicants' comments have been noted and considered but are not deemed persuasive of patentability.

Castillo et al PCT 00/12102 teach using compounds in the treatment of Alzheimer's disease which contain procyanidin B2 in the same concentrations as recited in applicants' claims. See, for example, page 1, lines 10-22, page 2 lines 15-24. It is noted that Uncaria contains 2% procyanidin B2 and is used in 10 to 1000 mg/kg of body weight. (Tuckmantel et al, J. Am. Chem. Soc., 121:12073-12081, 1999) This would correspond to, a therapeutically effective amount, for example, 20 mg/kg of body weight. Accordingly, the process of Castillo et al PCT

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00/12102 inherently possesses the characteristics of the invention as presently recited in the claims and would implicitly anticipate said invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 22-24, 27-32, 39, 40 and 60 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for reducing the deposition and buildup of $A\beta$ amyliod firbrils, it does not reasonably provide enablement for treating Alzheimer's disease. The specification does not enable any physician skilled in the art of medicine, to make the invention commensurate in scope with these claims. The how to make requirement of the enablement statute, when applied to process claims, refers to operability and how to make the claimed process work. "The [eight] factors to be considered [in making an enablement rejection] have been summarized as the quantity of experimentation necessary, the amount of direction or guidance presented, the presence or absence of working examples, the nature of the invention, the state of the prior art, the relative skill of those in that art, the predictability or unpredictability of the art and

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the breadth of the claims", In re Rainer, 146 USPQ 218 (1965); In re Colianni, 195 USPQ 150, Ex parte Formal, 230 USPQ 546. The main issues are the correlation between clinical efficacy for Alzheimer's treatment and Applicants' amyloid binding assay.

The comments herein also are in response to the declaration of Alan Snow filed under 37 CFR 1.132 on 2/1/06.

a) Determining if any particular claimed compound would treat any particular disease would require synthesis of the compound, formulation into a suitable dosage form, and testing them in an assay known to be correlated to clinical efficacy of such treatment. This is a large quantity of experimentation. b) The direction concerning treating Alzheimer's disease is found in for example page 26 and examples 7, 8, 14 and 15 of the specification, which merely states Applicants' intention to do so. There is an assay described in examples 7 and 14 with no data but it is unclear if this assay is correlated to Alzheimer's disease. c) There is no working example of treatment of any disease in man or animals. The assay provides evidence that the present compounds affect the deposit and accumulation of amyloid fibrils. However, this does not demonstrate an Alzheimer's therapeutic effect. d) The nature of the invention is clinical treatment of Alzheimer's disease with procyanidin B2, which involves physiological activity.

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e) The state of the clinical arts is that there has been an ongoing scientific debate as to the importance of amyloid in the treatment of Alzheimer's disease. (see p. 26 spec.).

f) The artisan using Applicants invention would be a physician with a MD degree and several years of experience. g) It is well established that "the scope of enablement varies inversely with the degree of unpredictability of the factors involved", and physiological activity is generally considered to be an unpredictable factor. See In re Fisher, 166 USPQ 18, at 24 (In cases involving unpredictable factors, such as most chemical reactions and physiological activity, the scope of enablement obviously varies inversely with the degree of unpredictability of the factors involved.), Nationwide Chemical Corporation, et al. v. Wright, et al., 192 USPQ 95 (one skilled in chemical and biological arts cannot always reasonably predict how different chemical compounds and elements might behave under varying circumstances), Ex parte Sudilovsky 21 USPQ2d 1702 (Appellant's invention concerns pharmaceutical activity. Because there is no evidence of record of analogous activity for similar compounds, the art is relatively unpredictable) In re Wright 27 USPQ2d 1510 (the physiological activity of RNA viruses was sufficiently unpredictable that success in developing specific avian recombinant virus vaccine was uncertain). h) The scope of the claims involves treatment of many diseases via amyloid formation which includes hundreds of amyloid protein deposits embraced by the term amyloid. Thus, the scope of claims is very broad.

MPEP §2164.01(a) states, "A conclusion of lack of enablement means that, based on the evidence regarding each of the above factors, the specification, at the time the application was filed, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 999 F.2d 1557,1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)." That conclusion is clearly justified here and undue experimentation will be required to practice Applicants' invention.

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raymond Covington whose telephone number is (571) 272-0681. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas McKenzie at telephone number (571) 272-0681.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

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contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas McKenzie

SPE

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/k RKC